(FILE 'HOME' ENTERED AT 17:22:07 ON 25 SEP 2001)

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FILE 'MEDLINE, CANCERLIT, CAPLUS, BIOTECHDS' ENTERED AT 17:33:45 ON 25
   SEP 2001
       35799 S OBESE
L1
      25871 S MESENCHYMAL
L2
      22566 S OB
L3
      55219 S L3 OR L1
L4
        46 S L4 AND L2
L5
        25 DUP REM L5 (21 DUPLICATES REMOVED)
L6
L7
        60 S EX VIVO AND L4
        37 DUP REM L7 (23 DUPLICATES REMOVED)
L8
        92 S L1 AND OSTEOP?
L9
         0 S L9 AND GENE THERAPY
L10
L11
          9 S L9 AND CELL#
         7 DUP REM L11 (2 DUPLICATES REMOVED)
L12
        115 S L1 AND STROMA#
L13
         12 S L13 AND THERAP?
L14
          9 DUP REM L14 (3 DUPLICATES REMOVED)
L15
       90568 S L2 OR STROMA#
L16
        718 S L16 AND GENE THERAPY
L17
         25 S L17 AND (OSTEOP? OR OBES?)
L18
         17 DUP REM L18 (8 DUPLICATES REMOVED)
L19
         38 S L17 AND REVIEW
L20
L21 ANSWER 24 OF 26 BIOTECHDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 1995-11379 BIOTECHDS
TI Collagens: molecular biology, diseases and potentials for therapy;
     cartilage and bone disease ***gene*** ***therapy***
     strategies; a ***review***
AU Prockop D J; Kivirikko K I
CS Univ.Philadelphia-Thomas-Jefferson-Inst.Mol.Med.; Univ.Oulu
LO Department of Biochemistry and Molecular Biology, Jefferson Institute of
    Molecular Medicine, Jefferson Medical College of Thomas Jefferson
    University, Philadelphia, PA 19107, USA.
SO Annu.Rev.Biochem.; (1995) 64, 403-34
    CODEN: ARBOAW ISSN: 0066-4154
DT Journal
LA English
AB Collagens are reviewed, with respect to: the collagen family of proteins
    and genes (structure and functions of the collagen triple helix, and
    types of collagen); biosynthesis (intracellular processing, extracellular
    events, and potentials for inhibiting fibrosis); and mutations (mutations
    in patients, transgenic mouse mutations and potentials for ***gene***
    ***therapy*** ). ***Gene*** ***therapy*** may be used to
    control collagen deposition in fibrotic conditions or to rescue the
    phenotypes produced by mutated genes. An antisense gene against the
    human COL1A1 gene is effective in transgenic mice with a fragile bone
    phenotype caused by an internally deleted minigene for the pro-alpha-1
    chain of human type-I procollagen, causing a reduction in incidence of
    the lethal phenotype from 92% to 27%. Mice transplanted with bone marrow
    ***stromal*** cells from a transgenic mouse containing a human COL1A1
    minigene DNA marker have shown COL1A1 minigene expression in bone,
    showing that the ***stromal*** cells may be a useful source of
    long-lasting precursor cells for ***gene*** ***therapy*** of bone
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and cartilage disease. Targeted insertion studies are also discussed.

L21 ANSWER 23 OF 26 MEDLINE

DUPLICATE 8

AN 96231139 MEDLINE

DN 96231139 PubMed ID: 8646477

TI The biology and application of human bone marrow ***stromal*** cell precursors.

AU Gronthos S; Simmons P J

CS Matthew Roberts Laboratory, Hanson Centre for Cancer Research, Adelaide, Australia.

SO JOURNAL OF HEMATOTHERAPY, (1996 Feb) 5 (1) 15-23. Ref: 74 Journal code: B3T; 9306048. ISSN: 1061-6128.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199607

ED Entered STN: 19960805 Last Updated on STN: 19960805 Entered Medline: 19960725

AB The importance of the ***stromal*** tissue of the bone marrow in regulating hemopoiesis is well documented. However, several features of marrow ***stromal*** cell biology remain poorly understood, in particular, the ontogeny and phylogeny of the various ***stromal*** elements that comprise the microenvironment of the bone marrow. In this article we ***review*** recent data concerning the immunophenotype and functional characteristics of precursor cells for marrow ***stromal*** tissue. The study of these ***stromal*** precursor cells (SPC) represents an exciting new field of research that will almost certainly expand in the future as we gain a greater understanding of the cellular and molecular events, environmental cues, and growth factors that physiologically regulate the commitment and subsequent development of SPC. Although the field of marrow SPC biology is in its infancy, we predict that future studies will result in several novel clinical applications for SPC. We, therefore, conclude this article by speculating on a number of these potential applications and, thus, view SPC and their progeny as likely vehicles for several novel and important cellular therapies,

L21 ANSWER 2 OF 26 MEDLINE

DUPLICATE 2

AN 2000220516 MEDLINE

DN 20220516 PubMed ID: 10757017

TI Stem cell therapy and gene transfer for regeneration.

AU Asahara T; Kalka C; Isner J M

CS St Elizabeth's Medical Center, Tufts University School of Medicine, Boston, MA, USA.

SO GENE THERAPY, (2000 Mar) 7 (6) 451-7. Ref: 62 Journal code: CCE; 9421525. ISSN: 0969-7128.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 200004

ED Entered STN: 20000505

Last Updated on STN: 20000505 Entered Medline: 20000426

AB The committed stem and progenitor cells have been recently isolated from various adult tissues, including hematopoietic stem cell, neural stem cell, ***mesenchymal*** stem cell and endothelial progenitor cell.

These adult stem cells have several advantages as compared with embryonic stem cells as their practical therapeutic application for tissue regeneration. In this ***review*** , we discuss the promising ***gene*** ***therapy*** application of adult stem and progenitor cells in terms of modifying stem cell potency, altering organ property, accelerating regeneration and forming expressional organization.